

METHOD AND SYSTEM FOR MANAGEMENT OF RESOURCE LEASES IN AN APPLICATION FRAMEWORK SYSTEM

A method, system, apparatus, and computer program product are presented for management of resource leases within a distributed data processing system. A resource manager receives a lease request from a requester for a resource in which the lease request has a requested lease period. In response to receiving the lease request, the resource manager secures leases along a logical circuit of resources through the distributed data processing system. The resource manager requests leases from other resource managers along the data path that comprises the logical circuit because use of the requested resource requires use of other resources. After securing leases on a logical circuit of resources, the resource manager returns a lease grant for the resource to the requester. If the system detects oversubscribed conditions and/or error conditions, the system can adjust the pending leases in an appropriate manner, such as terminating a lease, adjusting the lease period of a lease, and the like.